TAF PROFILE REPORT

U.S. (FEDERAL) GOVERNMENT PATENTING

1/1977 - 12/2001



April 2002 U.S. PATENT AND TRADEMARK OFFICE INFORMATION PRODUCTS DIVISION / TAF BRANCH PK3 - Suite 441, WASHINGTON, DC 20231 tel (703) 306-2600 / FAX (703) 306-2737

A TECHNOLOGY ASSESSMENT AND FORECAST REPORT

TAF Profile Report 1/1977 - 12/2001 Explanation of Data

This Technology Assessment and Forecast (TAF) report profiles patent activity for all U.S. patent documents (design, plant, reissue, and utility patents, defensive publications, and statutory invention registrations) granted between January 1, 1977 and December 31, 2001 for which ownership was assigned to a Federal organization at the time of grant. The source of the data used for this report is the TAF data base maintained by the Office of Patent and Trademark Information.

Data Distribution By Date of Grant and By Date of Application

Parts A1 and A2

Part A1 distributes patent GRANT data by year of patent grant ("Patents Granted By Date of Patent Grant"). Part A2 distributes grant data by the year in which the patented application was filed ("Patents Granted By Date of Patent Application"). Parts A1 and A2 each provide patent counts (pages A1-1 and A2-1) and percent distributions (pages A1-2 and A2-2).

Patent data in the "Pre 1988" column corresponds to the period January 1, 1977 through December 31, 1987.

Part B

Part B of this report distributes patent GRANT data for organizations that have received U.S. patents since 1977. Data are presented by the year in which the patent was granted ("Patents By Year of Grant") and the year the patented application was filed ("Patents by Year of Application").

DATA FOR THOSE APPLICATIONS WHICH WERE FILED BUT NEVER ISSUED (ROUGHLY 25% OF TOTAL FILINGS) ARE NOT INCLUDED IN THIS REPORT.

Since the average time period between filing for a patent and the issuing of the patent (i.e., a patent's "pendency") is now about 24 months, the patented application data for the most recent years are incomplete.* This is because a significant number of the applications filed in the most recent years, which will ultimately become patents, were still pending in **December 2001**. Since they had not yet become patents at the time this report was prepared, they were not included in this report.

Patented application data are of significant value since the date an application was filed more accurately reflects when the technology was developed. Additionally, fluctuations in data based on application date are much more likely to reflect changes in technological activity, since such fluctuations would for the most part be immune from changes in PTO processing such as occurred in 1986 when the PTO issued fewer patents

than would normally have been expected due to a lack of funds to print patents. Note that a patent's "pendency" can be quite variable from one patent to another thereby affecting the date of patent grant. Such variation in pendency is determined by many factors, including PTO workload (which varies between technologies), budget and manpower levels, patent printing schedules, etc.

Parts of the Report

Parts A1 and A2 present tables which show, by number and percent, the patent activity. Part A1 presents data by year of patent grant ("Patents Granted by Date of Patent Grant"). Part A2 redistributes grant data by year of patent application ("Patents Granted by Date of Patent Application"). The location of patent origin is determined by the residence of the first-named inventor at the time of grant.

Information on **patent ownership** reflects ownership at the time of patent grant and does not include subsequent changes in ownership. If more than one assignee was declared at the time of grant, the patent is attributed to the first-named assignee. The U.S. and Foreign Corporations ownership categories count predominantly corporate patents; however, patents assigned to other organizations such as small businesses, nonprofit organizations, universities, etc. are also included in this category. While U.S. Government patent ownership includes only patents granted to the Federal Government, no such distinction is made for Foreign Government patents.

Part B is a ranked listing of Federal organizations which have received 1 or more U.S. patents since 1977. Information on patent ownership reflects ownership at the time of patent grant (see explanation for Parts A1 and A2, above). Although a substantial effort has been made to combine name variations into a single organizational name, many organizations continue to have patents listed under more than one organizational name.

^{*} As of December 31, 2001, UTILITY patent application data (most issued patent documents are utility patents) were approximately 79% complete for patent applications filed in 1998, and 53% complete for applications filed in 1999 and 16% complete for 2000 filings. They are essentially complete for applications filed prior to 1998.

Part A1 Patent Grants as Distributed By Year of Patent Grant

---- Technology Assessment and Forecast Report ----

U.S. FEDERAL GOVERNMENT (UTILITY, DESIGN, PLANT, REISSUE PATENTS, STATUTORY INVENTION REGISTRATIONS, DEFENSIVE PUBLICATIONS)
Page A1- 1

		Patents	Granted	By Da	te Of	Patent	Grant (Granted:	Jan 01,	1977 -	Dec 31,	2001)					
									PATENTS								
	Pre 1988	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	Total	
Total	12821	848	977	1064	1272	1225	1234	1310	1083	960	974	1039	999	961	985	27752	
U.S. Origin	12724	841	967	1059	1268	1218	1226	1299	1076	955	963	1030	995	954	975	27550	
Foreign Origin	97	7	10	5	4	7	8	11	7	5	11	9	4	7	10	202	
UNITED KINGDOM	26			1				1				1	1	1	1	32	
GERMANY	5	1	3	2	1	2		1		3	2	3		1	1	25	
CANADA	18			1				1	2				1	1		24	
ISRAEL	9	2			1	1	1	1	1	1	2				1	20	
INDIA	12	2	1		2		2									19	
JAPAN	4	1	1			1		3	2		1	2			1	16	
ITALY							2				2	1		1	2	8	
FRANCE	2		1	1				1						2		7	
GREECE	5		2													7	
SWITZERLAND	2						1	2					1			6	
AUSTRALIA	2		1				1		1							5	
TURKEY	4															4	
TAIWAN						1					1				1	3	
BRAZIL									1		1	1				3	
RUSSIAN FEDERATION														1	2	3	
CHINA P.REP.	1		1													2	
FINLAND	1											1				2	
EGYPT	2											_				2	
NORWAY	2															2	
NETHERLANDS	1															1	
TANZANIA	-					1										1	
BULGARIA						-	1									1	
SWEDEN		1					-									1	
YUGOSLAVIA		-						1								1	
POLAND						1		_								1	
ARAB EMIRATES										1						1	
BELGIUM										_	1					1	
JORDAN											1					1	
SOUTH KOREA											_		1			1	
VENEZUELA	1												1			1	
KENYA															- 1	1	
ALMIA															1	1	
Ownership:																	
U.S. Corporations																0	
U.S. Government	12821	848	977	1064	1272	1225	1234	1310	1083	960	974	1039	999	961	985	27752	
U.S. Individuals	12821	848	977	1064	1272	1225	1234	1310	1083	960	974	1039	999	961	985	27752	
Foreign Corporations																0	
Foreign Government																0	
Foreign Individuals																0	

U.S. FEDERAL GOVERNMENT (UTILITY, DESIGN, PLANT, REISSUE PATENTS, STATUTORY INVENTION REGISTRATIONS, DEFENSIVE PUBLICATIONS) Page A1- 2

U.S. FEDERAL GOVERNMENT	(UTILITY,	DESIGN, F	LANT, RE	LSSUE PA	TENTS,	STATUTOR	INVENTI	ON REGIS	TRATIONS	, DEFENS	IVE PUBL	ICATIONS	·)		Page	A1- 2	
		Patents	Granted	By Da	te Of	Patent	Grant (Granted:	Jan 01,	1977 -	Dec 31,	2001)					
				-1							,	,					
							PE	RCENT OF	PATENTS								
	Pre 1988	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	Total	
Total	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	
U.S. Origin	99	99	99	100	100	99	99	99	99	99	99	99	100	99	99	99	
Foreign Origin	1	1	1			1	1	1	1	1	1	1		1	1	1	
UNITED KINGDOM																0	
GERMANY																0	
CANADA																0	
ISRAEL																0	
INDIA																0	
JAPAN																0	
ITALY																0	
FRANCE GREECE																0	
SWITZERLAND																0	
AUSTRALIA																0	
TURKEY																0	
TAIWAN																0	
BRAZIL																0	
RUSSIAN FEDERATION																0	
CHINA P.REP.																0	
FINLAND																0	
EGYPT																0	
NORWAY																0	
NETHERLANDS																0	
TANZANIA																0	
BULGARIA																0	
SWEDEN																0	
YUGOSLAVIA																0	
POLAND																0	
ARAB EMIRATES																0	
BELGIUM																0	
JORDAN																0	
SOUTH KOREA																0	
VENEZUELA																0	
KENYA																0	
Ownership:																	
U.S. Corporations																0	
U.S. Government	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	
U.S. Individuals																0	
Foreign Corporations																0	
Foreign Government																0	
Foreign Individuals																0	

Part A2 Patent Grants as Distributed By Year of Patent Application

---- Technology Assessment and Forecast Report ----

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U.S. FEDERAL GOVERNMENT (UTILITY, DESIGN, PLANT, REISSUE PATENTS, STATUTORY INVENTION REGISTRATIONS, DEFENSIVE PUBLICATIONS)

	Pa	tents G	ranted 1	By Date	Of Pat	ent App	lication	(Grant	ed: Jan	01, 1977	- Dec 3	1, 2001)					
						N	UMBER C	т ратент	ED APPLI	CATTONS							
	Pre 1988	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	Total	
	116 1500	1700	1707	1000	1771	1772	1000	1004	1333	1000	1007	1000	1000	2000	2001	IOCAI	
Total	14793	979	1103	1270	1245	1290	1267	1100	1166	929	944	848	584	226	8	27752	
U.S. Origin	14683	974	1096	1261	1234	1281	1263	1088	1156	919	938	844	582	223	8	27550	
Foreign Origin	110	5	7	9	11	9	4	12	10	10	6	4	2	3		202	
UNITED KINGDOM	26		1			1				1	1	1	1			32	
GERMANY	7	2	3		1	2	1	3	1	3	1			1		25	
CANADA	18		1		1	2		1				1				24	
ISRAEL	11			4			1	1	1	1		1				20	
INDIA	14		1	2	2											19	
JAPAN	5	1			2	2	1	2	1	1	1					16	
ITALY				1	1			2	2		1			1		8	
FRANCE	3	1					1		1	1						7	
GREECE	7															7	
SWITZERLAND	2	1			1	1			1							6	
AUSTRALIA	3				1	1										5	
TURKEY	4															4	
TAIWAN				1				1			1					3	
BRAZIL								1	1	1						3	
RUSSIAN FEDERATION												1	1	1		3	
FINLAND	1									1						2	
EGYPT	2															2	
CHINA P.REP.	2															2	
NORWAY	2															2	
VENEZUELA	1															1	
POLAND				1												1	
NETHERLANDS	1															1	
TANZANIA					1											1	
YUGOSLAVIA					1											1	
BELGIUM								1								1	
SWEDEN	1															1	
ARAB EMIRATES									1							1	
KENYA									1	_						1	
JORDAN										1						1	
SOUTH KOREA											1					1	
BULGARIA			1													1	
0																	
Ownership:																0	
U.S. Corporations U.S. Government	14793	979	1103	1270	1245	1290	1267	1100	1166	929	944	848	584	226	8	27752	
U.S. Government U.S. Individuals	14/93	9/9	1103	12/0	1245	1290	120/	1100	1100	929	944	040	384	220	•	27752	
U.S. INGIVIDUALS																J	
Foreign Corporations																0	
Foreign Government																0	
Foreign Individuals																0	
																,	

U.S. FEDERAL GOVERNMENT (UTILITY, DESIGN, PLANT, REISSUE PATENTS, STATUTORY INVENTION REGISTRATIONS, DEFENSIVE PUBLICATIONS) Page A2- 2

	Pa	tents Gr	anted B	By Date	Of Pat	ent Ap	plication	(Grant	ed: Jan	01, 1977	' - Dec 3	31, 2001)					
							PERCENT O	F PATENT	ED APPLI	CATIONS							
	Pre 1988	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	Total	
Total	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	
U.S. Origin	99	99	99	99	99	99	100	99	99	99	99	100	100	99	100	99	
Foreign Origin	1	1	1	1	1	1		1	1	1	1			1		1	
UNITED KINGDOM																0	
GERMANY																0	
CANADA																0	
ISRAEL																0	
INDIA																0	
JAPAN																0	
ITALY																0	
FRANCE																0	
GREECE																0	
SWITZERLAND																0	
AUSTRALIA																0	
TURKEY																0	
TAIWAN																0	
BRAZIL																0	
RUSSIAN FEDERATION																0	
FINLAND																0	
EGYPT																0	
CHINA P.REP.																0	
NORWAY																0	
VENEZUELA																0	
POLAND																0	
NETHERLANDS																0	
TANZANIA																0	
YUGOSLAVIA																0	
BELGIUM																0	
SWEDEN																0	
ARAB EMIRATES																0	
KENYA																0	
JORDAN																0	
SOUTH KOREA																0	
BULGARIA																U	
Ormonah i																	
Ownership:																0	
U.S. Corporations	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100		
U.S. Government	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	
U.S. Individuals																0	
Banadan Garagest'																•	
Foreign Corporations																0	
Foreign Government																0	
Foreign Individuals																0	

Part B

Ranked Listing of Organizations with Patent Grants
As Distributed By Year of Patent Grant
and As Distributed By Year of Patent Application

--- Technology Assessment and Forecast Report ---

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U.S. FEDERAL GOVERNMENT (UTILITY, DESIGN, PLANT, REISSUE PATENTS, STATUTORY INVENTION REGISTRATIONS, DEFENSIVE PUBLICATIONS)

Organizational Patenting				(Grante	d: Jan 0	1, 1977	- Dec 31,	2001)	R	anked Li	st of Or	ganizati	ons with	1 or 1	More Pat	ents	_
	Pre																
	1988	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	TOTAL	
UNITED STATES OF AMERICA, NAVY																	
Patents By Year of Grant:	3452	126	145	276	396	314	360	395	347	294	299	345	358	365	326	7798	
Patents By Year of Application:	4036	173	214	370	331	367	366	311	337	324	356	322	209	82	0	7798	
UNITED STATES OF AMERICA, ARMY																	
Patents By Year of Grant:	2583	152	200	170	201	168	184	203	191	155	170	166	142	148	165	4998	
Patents By Year of Application:	2873	160	197	171	172	214	205	188	204	177	142	143	110	40	2	4998	
UNITED STATES OF AMERICA, DEPARTMENT																	
Patents By Year of Grant:	2472	240	233	240	215	250	182	205	119	71	69	62	53	57	69	4537	
Patents By Year of Application:	2894	216	247	229	227	178	166	78	69	67	55	52	42	17	0	4537	
UNITED STATES OF AMERICA, AIR FORCE																	
Patents By Year of Grant:	1632	136	157	114	149	145	139	138	86	104	94	84	91	84	106	3259	
Patents By Year of Application:	1919	133	114	154	135	131	112	101	106	93	82	85	65	26	3	3259	
INTER GENERA OF AMERICA MARTONAL AR	D0313.11m.T.G	a 2200 an	3.CE 3.DW	. N.T. C.M.D. N.M.T.	017												
UNITED STATES OF AMERICA, NATIONAL AE			ACE ADMI			151	166	160	122	104	97	95	93	97	92	2812	
Patents By Year of Grant:	1136 1299	93 145	139	128 137	151 170	151 159	166 167	160 125	110	98	97	95 95	93 46	97 26	2	2812	
Patents By Year of Application:	1299	143	139	137	170	139	107	125	110	90	24	95	40	20	2	2012	
UNITED STATES OF AMERICA, HEALTH & HU	MAN CEDV	TCES															
Patents By Year of Grant:	305	27	34	38	50	76	85	108	97	117	150	169	139	97	103	1595	
Patents By Year of Application:	385	56	70	84	96	130	126	182	204	69	96	51	35	11	0	1595	
racence by rear or apprication.	303	50	70	01	70	130	120	102	201	0,5	50	31	33			1373	
UNITED STATES OF AMERICA, DEPARTMENT	OF AGRIC	ULTURE															
Patents By Year of Grant:	557	35	43	49	47	55	54	38	49	41	49	75	71	55	67	1285	
Patents By Year of Application:	631	44	58	58	58	39	48	47	66	73	62	48	37	16	0	1285	
UNITED STATES OF AMERICA, DEPARTMENT	OF THE I	NTERIOR															
Patents By Year of Grant:	312	10	10	8	18	20	10	10	14	17	6	3	5	7	5	455	
Patents By Year of Application:	330	7	12	20	16	9	12	18	10	3	5	10	3	0	0	455	
UNITED STATES OF AMERICA, DEPARTMENT	OF COMME	RCE															
Patents By Year of Grant:	77	10	5	18	8	18	27	34	26	23	18	15	20	21	21	341	
Patents By Year of Application:	91	11	16	15	22	42	30	26	22	12	17	23	11	3	0	341	
UNITED STATES OF AMERICA																	
Patents By Year of Grant:	85	7	8	7	16	18	8	5	14	16	9	8	8	1	1	211	
Patents By Year of Application:	98	13	17	17	7	9	13	9	19	1	6	1	1	0	0	211	
UNITED STATES OF AMERICA, TENNESSEE V			_	_		_			_	_	_	_	_	_	_		
Patents By Year of Grant:	82	8	6	9	10	5	1	4	8	3	3	3	7	2	2	153	
Patents By Year of Application:	93	8	11	6	3	2	8	3	4	5	4	4	2	0	0	153	

Pre 1988 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 TOTAL UNITED STATES OF AMERICA, ENVIRONMENTAL PROTECTION AGENCY Patents By Year of Grant: 42 1 4 4 6 2 8 4 5 8 7 3 4 9 12 119 Patents By Year of Application: 45 6 2 6 6 4 7 6 12 2 8 2 10 2 1 119 UNITED STATES OF AMERICA, DIRECTOR NATIONAL SECURITY AGENCY Patents By Year of Grant: 21 3 5 3 2 3 8 4 3 3 1 8 5 17 11 97 Patents By Year of Application: 34 5 4 2 1 5 4 4 2 2 12 11 8 3 0 97 UNITED STATES OF AMERICA, DEPARTMENT OF TRANSPORTATION	
1988 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 TOTAL UNITED STATES OF AMERICA, ENVIRONMENTAL PROTECTION AGENCY Patents By Year of Grant: 42 1 4 4 6 2 8 4 5 8 7 3 4 9 12 119 Patents By Year of Application: 45 6 2 6 6 4 7 6 12 2 8 2 10 2 1 119 UNITED STATES OF AMERICA, DIRECTOR NATIONAL SECURITY AGENCY Patents By Year of Grant: 21 3 5 3 2 3 8 4 3 3 1 8 5 17 11 97 Patents By Year of Application: 34 5 4 2 1 5 4 4 2 2 2 12 11 8 3 0 97	
UNITED STATES OF AMERICA, ENVIRONMENTAL PROTECTION AGENCY Patents By Year of Grant: 42 1 4 4 6 2 8 4 5 8 7 3 4 9 12 119 Patents By Year of Application: 45 6 2 6 6 4 7 6 12 2 8 2 10 2 1 119 UNITED STATES OF AMERICA, DIRECTOR NATIONAL SECURITY AGENCY Patents By Year of Grant: 21 3 5 3 2 3 8 4 3 3 1 8 5 17 11 97 Patents By Year of Application: 34 5 4 2 1 5 4 4 2 2 12 11 8 3 0 97	
Patents By Year of Grant: 42 1 4 4 6 2 8 4 5 8 7 3 4 9 12 119 Patents By Year of Application: 45 6 2 6 6 4 7 6 12 2 8 2 10 2 1 119 UNITED STATES OF AMERICA, DIRECTOR NATIONAL SECURITY AGENCY Patents By Year of Grant: 21 3 5 3 2 3 8 4 3 3 1 8 5 17 11 97 Patents By Year of Application: 34 5 4 2 1 5 4 4 2 2 12 11 8 3 0 97	
Patents By Year of Grant: 42 1 4 4 6 2 8 4 5 8 7 3 4 9 12 119 Patents By Year of Application: 45 6 2 6 6 4 7 6 12 2 8 2 10 2 1 119 UNITED STATES OF AMERICA, DIRECTOR NATIONAL SECURITY AGENCY Patents By Year of Grant: 21 3 5 3 2 3 8 4 3 3 1 8 5 17 11 97 Patents By Year of Application: 34 5 4 2 1 5 4 4 2 2 12 11 8 3 0 97	
Patents By Year of Application: 45 6 2 6 6 4 7 6 12 2 8 2 10 2 1 119 UNITED STATES OF AMERICA, DIRECTOR NATIONAL SECURITY AGENCY Patents By Year of Grant: 21 3 5 3 2 3 8 4 3 3 1 8 5 17 11 97 Patents By Year of Application: 34 5 4 2 1 5 4 4 2 2 12 11 8 3 0 97	
UNITED STATES OF AMERICA, DIRECTOR NATIONAL SECURITY AGENCY Patents By Year of Grant: 21 3 5 3 2 3 8 4 3 3 1 8 5 17 11 97 Patents By Year of Application: 34 5 4 2 1 5 4 4 2 2 12 11 8 3 0 97	
Patents By Year of Grant: 21 3 5 3 2 3 8 4 3 3 1 8 5 17 11 97 Patents By Year of Application: 34 5 4 2 1 5 4 4 2 2 12 11 8 3 0 97	
Patents By Year of Application: 34 5 4 2 1 5 4 4 2 2 12 11 8 3 0 97	
UNITED STATES OF AMERICA, DEPARTMENT OF TRANSPORTATION	
UNITED STATES OF AMERICA, DEPARTMENT OF TRANSPORTATION	
Patents By Year of Grant: 21 0 0 0 2 0 2 1 0 0 1 3 2 1 0 33 Patents By Year of Application: 21 1 2 1 1 0 0 0 0 2 4 1 0 0 0 33	
Patents By Year of Application: 21 1 2 1 1 0 0 0 0 2 4 1 0 0 0 33	
UNITED STATES OF AMERICA, FEDERAL COMMUNICATIONS COMMISSION	
Patents By Year of Grant: 15 0 0 0 0 0 0 0 0 0 0 0 1 0 1 17	
Patents By Year of Application: 15 0 0 0 0 0 0 0 0 1 0 1 0 17	
UNITED STATES OF AMERICA POSTAL SERVICE	
Patents By Year of Grant: 5 0 0 0 1 0 0 1 0 1 1 0 0 2 11	
Patents By Year of Application: 5 1 0 0 1 1 0 0 1 0 0 2 0 0 11	
UNITED STATES OF AMERICA, VETERANS ADMINISTRATION	
Patents By Year of Grant: 10 0 0 0 0 0 0 0 0 0 0 0 0 1 11 Patents By Year of Application: 10 0 0 0 0 0 0 0 0 0 0 1 10	
Patents By Year of Application: 10 0 0 0 0 0 0 0 0 0 0 1 0 0 11	
UNITED STATES OF AMERICA, TREASURY	
Patents By Year of Grant: 6 0 0 0 0 0 0 0 1 0 0 0 0 7	
Patents By Year of Application: 6 0 0 0 0 0 1 0 0 0 0 7	
UNITED STATES OF AMERICA, LIBRARY OF CONGRESS	
Patents By Year of Grant: 2 0 0 0 0 0 0 0 1 1 0 0 0 0 4	
Patents By Year of Application: 2 0 0 0 0 1 1 0 0 0 0 0 0 4	
INTERD CHARGE OF AMERICA. AMERICAN CHARGAS	
UNITED STATES OF AMERICA, ATTORNEY GENERAL Patents By Year of Grant: 2 0 0 0 0 0 0 0 0 0 0 0 0 0 2	
Patents By Year of Application: 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 2	
UNITED STATES OF AMERICA, DEPARTMENT OF STATE	
Patents By Year of Grant: 0 0 0 0 0 0 0 1 0 0 0 0 1 2	
Patents By Year of Application: 0 0 0 0 0 1 0 0 0 0 1 0 0 2	
UNITED STATES OF AMERICA, FEDERAL RESERVE BANK OF BOSTON	
Patents By Year of Grant: 1 0 0 0 0 0 0 0 0 0 0 0 0 0 1	
Patents By Year of Application: 1 0 0 0 0 0 0 0 0 0 0 0 0 0 1	

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U.S. FEDERAL GOVERNMENT (UTILITY, DESIGN, PLANT, REISSUE PATENTS, STATUTORY INVENTION REGISTRATIONS, DEFENSIVE PUBLICATIONS)

Patents By Year of Grant:
Patents By Year of Application:

Organizational Patenting				(Grante	ed: Jan (01, 1977	- Dec 31	, 2001)	I	Ranked Li	st of Or	ganizati	ons with	1 or	More Pat	tents
	Pre															
	1988	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	TOTAL
UNITED STATES OF AMERICA, FEDERAL RE	SERVE BAN	K OF RIC	HMOND													
Patents By Year of Grant:	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Patents By Year of Application:	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
UNITED STATES OF AMERICA, FEDERAL TR	ADE COMMI	SSION														
Patents By Year of Grant:	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Patents By Year of Application:	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
UNITED STATES OF AMERICA, NATIONAL I	NSTITUTE (OF STAND	ARDS AND	TECHNOI	LOGY											
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1
Patents By Year of Application:	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
UNITED STATES OF AMERICA, SMALL BUSI	NESS ADMI	NISTRATI	ON													
Patents By Year of Grant:	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Patents By Year of Application:	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Other Organizations (0)																